## 2003 ANNUAL ANALYSIS OF CEDAR & TOLT WATER SUPPLIES

Samples Collected: May 20, 2003 (unless otherwise noted)

Cedar Distribution = South of the ship canal & lower elevations North of ship canal.

Tolt Distribution = Higher elevations North of the ship canal.

Water Quality	State Dept. of Health			Minimum
Parameter	Maximum Contaminant Level	CEDAR	TOLT	Reporting
Primary Standards *	MCL			Level
Antimony	6 ug/L	ND	ND	3.0
Arsenic	50 ug/L	ND	ND	1.0
Asbestos \$	7 million fibers/L (>10um long)	ND	ND	0.2
Barium	2000 ug/L	ND	ND	5.0
Beryllium	4 ug/L	ND	ND	2.0
Cadmium	5 ug/L	ND	ND	0.2
Cyanide	200 ug/L	ND	ND	10.0
Chromium	100 ug/L	ND	ND	1.0
Fluoride	4 mg/L	0.86	0.96	0.10
Haloacetic Acids, Total ~	60 ug/L	24.9	25.0	5.0
Nickel	100 ug/L	ND	ND	10.0
Mercury	2 ug/L	ND	ND	0.1
Nitrate-Nitrogen	10 mg/L	0.046	0.128	0.010
Nitrite-Nitrogen	1 mg/L	ND	ND	0.002
Selenium	50 ug/L	ND	ND	3.0
Thallium	2 ug/L	ND	ND	2.0
Trihalomethanes, Total~	80 ug/L	28.2	32.2	0.5
Turbidity	5 NTU for Cedar/ 0.30 NTU for Tolt	0.49	0.15	0.05
Secondary Standards **	SMCL			
Aluminum	50 - 200 ug/L	72.3	26.5	3.0
Chloride	250 mg/L	3.71	2.83	0.5
Color	15 std. units	ND	ND	5.0
Copper ^	1000 ug/L	ND	ND	1.0
Fluoride	2 mg/L	0.86	0.96	0.10
Iron	0.3 mg/L	0.027	0.015	0.004
Manganese	50 ug/L	3	ND	1.0
pH, range ++ ^	6.5 - 8.5 pH units	7.79 - 8.47	8.09 - 8.65	NA
Silver	100 ug/L	ND	ND	1.0
Solids,Total Dissolved	500 mg/L	47.5	37.0	5.0
Specific Conductance	700 umhos/cm	67.8	57.8	5.0
Sulfate	250 mg/L	1.32	2.12	1.0
Zinc	5 mg/L	ND	ND	0.02
Other Parameters ^	Units			
Alkalinity, Total (as CaCO3)	mg/L	22.3	15.4	2.0
Calcium, (as CaCO3)	mg/L	25.6	23.2	2.0
Hardness, (as CaCO3)	mg/L	30.1	24.6	2.0
Hardness, (as CaCO3)	grains/gal.	1.74	1.42	0.1
Magnesium	mg/L	1.08	0.34	0.02
Oxygen, Dissolved	mg/L	11.2	15.9	0.5
Potassium	mg/L	0.26	0.13	0.020
Silica, Reactive	mg/L	7.90	5.40	1.0
Sodium	mg/L	2.31	1.12	0.02
Temperature, annual range	deg. C.	5 - 20	5 - 20	NA
Total Organic Carbon (treatment plant	mg/L	1.05	1.11	0.20
Lead, Source water	ug/L	ND	ND	1.0
	Action Level			
Lead, Residential Survey @	15 ug/L	11.1	30.9	1.0
Copper, Residential Survey @	1300 ug/L	263	969	1.0
	lards were measured at the Intake			

Primary and Secondary Standards were measured at the Intake to the distribution system after treatment.

1 ppm = 1 mg/L = 1000 ug/L

ND = Not Detected at or above the Minimum Reporting Level

<sup>\*</sup> Health stds.: Supplier subject to public notification.

<sup>\*\*</sup> Aesthetic stds.: Supplier not subject to public notification.

Average of the last 4 quarters testing, through 5/03.

<sup>++</sup> January-May 2003, 10-90th percentile

<sup>\$</sup> Test results 12/15/95 - analysis not required in 2003

<sup>^</sup> Representative of the Seattle distribution system.

<sup>@</sup> Measured at 90th percentile of overnight standing residential samples from homes with copper pipes and lead solder, 1997. New samples will be collected in late 2003 and again in early 2004.